

We claim:

Sub B1
1. A substantially purified nucleic acid molecule that encodes a plant protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 8135.

5 2. The substantially purified nucleic acid molecule of claim 1, wherein the plant protein or fragment thereof is a wheat protein or fragment thereof.

3. A substantially purified wheat protein or fragment thereof, wherein said wheat protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO:
10 8135.

4. A transformed plant having a nucleic acid molecule which comprises:

(a) an exogenous promoter region which functions in a plant cell to cause the production of a mRNA molecule;

(b) a structural nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 8135 or complements thereof;

(c) a 3' non-translated sequence that functions in said plant cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.

15 20 5. The transformed plant according to claim 4, wherein said structural nucleic acid molecule is a complement of any of the nucleic acid sequences of SEQ ID NO: 1 through SEQ ID NO: 8135.

6. The transformed plant according to claim 5, wherein said plant is wheat, soybean, cotton or maize.

25 7. The transformed plant according to claim 5, wherein said plant is maize.

- [illegible]